

ABSTRACT OF THE DISCLOSURE

The invention discloses a method for processing alkene-containing exhaust gas. It is a combination of ozonic and biological processes which mainly deal with exhaust gas mixtures having alkene-containing (C-C double bond) organic exhaust gas (such as alkene, acrylic acid) and other volatile organic compounds (such as ketone, alcohol, BTEX, and others). Since exhaust gas containing C-C double bond is difficult to dispose of, the method for processing exhaust gas presented in the invention utilizes ozone to completely decompose or transform the organic contaminants with C-C double bonds into intermediate products. The organic contaminant can then be treated in the biological process and converted into non-toxic substances. This method does not require large-sized biological process equipment, and the residual ozone is oxidized and degraded in the bio-filter.